

```

RRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSSS
RRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSSS
RRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSSS
RRR              RRR    MMMMMM    MMMMMM    SSS
RRR              RRR    MMMMMM    MMMMMM    SSS
RRR              RRR    MMMMMM    MMMMMM    SSS
RRR              RRR    MMM      MMM      MMM    SSS
RRR              RRR    MMM      MMM      MMM    SSS
RRR              RRR    MMM      MMM      MMM    SSS
RRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSS
RRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSS
RRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSS
RRR      RRR      MMM      MMM      SSS
RRR      RRR      MMM      MMM      SSS
RRR      RRR      MMM      MMM      SSS
RRR              RRR    MMM      MMM      SSS
RRR              RRR    MMM      MMM      SSS
RRR              RRR    MMM      MMM      SSS
RRR              RRR    MMM      MMM      SSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSSS
RRR              RRR    MMM      MMM      SSSSSSSSSSSSSS
RRR              RRR    MMM      MMM      SSSSSSSSSSSSSS

```

— 52

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```
RRRRRRRR      MM      MM      000000      FFFFFFFFFF      IIIIII      LL      FFFFFFFFFF      NN      NN      CCCCCCCC
RRRRRRRR      MM      MM      000000      FFFFFFFFFF      IIIIII      LL      FFFFFFFFFF      NN      NN      CCCCCCCC
RR      RR      MMMM      MMMM      00      00      FF      II      LL      FF      NN      NN      CC
RR      RR      MMMM      MMMM      00      00      FF      II      LL      FF      NN      NN      CC
RR      RR      MM      MM      00      0000      FF      II      LL      FF      NNNN      NN      CC
RR      RR      MM      MM      00      0000      FF      II      LL      FF      NNNN      NN      CC
RRRRRRRR      MM      MM      00      00      00      FF      II      LL      FFFFFFFF      NN      NN      CC
RRRRRRRR      MM      MM      00      00      00      FF      II      LL      FFFFFFFF      NN      NN      CC
RR      RR      MM      MM      0000      00      FF      II      LL      FF      NN      NN      CC
RR      RR      MM      MM      0000      00      FF      II      LL      FF      NN      NN      CC
RR      RR      MM      MM      00      00      FF      II      LL      FF      NN      NN      CC
RR      RR      MM      MM      00      00      FF      II      LL      FF      NN      NN      CC
RR      RR      MM      MM      000000      FF      IIIIII      LLLLLLLLLL      NN      NN      CCCCCCCC
RR      RR      MM      MM      000000      FF      IIIIII      LLLLLLLLLL      NN      NN      CCCCCCCC

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
```


(2) 93
(3) 109
(7) 253

DECLARATIONS
RMSFCPFNC - ROUTINE TO ISSUE A FILE FUNCTION QIO
RMSMAPERR - ROUTINE TO MAP SYSTEM ERROR CODES TO RMS CODES


```
0000 1          $BEGIN  RMOFILFNC,000,RM$RMS0,<FILE FUNCTIONS MODULE>
0000 2
0000 3
0000 4 *****
0000 5
0000 6
0000 7
0000 8
0000 9
0000 10
0000 11
0000 12
0000 13
0000 14
0000 15
0000 16
0000 17
0000 18
0000 19
0000 20
0000 21
0000 22
0000 23
0000 24
0000 25 *****
0000 26
0000 27 ++
0000 28 Facility: rms32
0000 29
0000 30 Abstract:
0000 31 this module includes various routines to
0000 32 perform files-11 primitive functions.
0000 33
0000 34
0000 35 Environment:
0000 36 star processor running starlet exec.
0000 37
0000 38 Author: L F Laverdure, creation date: 11-march-77
0000 39
0000 40 Modified By:
0000 41
0000 42 V03-042 RAS0279 Ron Schaefer 26-Mar-1984
0000 43 Add additional system errors to RM$MAPERR:
0000 44 $$$_IVDEVNAM --> RM$_DEV
0000 45 $$$_DEVALLOC --> RM$_DNR
0000 46
0000 47 V03-041 DGB0019 Donald G. Blair 05-Mar-1984
0000 48 Completely reorganize RM$FILFNC and its alternate
0000 49 entry points as part of the restructuring necessary
0000 50 to implement access mode protected files.
0000 51
0000 52 V03-040 KBT0207 Keith B. Thompson 23-Aug-1982
0000 53 Reorganize psects
0000 54
0000 55 V03-039 KPL0013 Peter Lieberwirth 4-Feb-1982
0000 56 Map DEADLOCK and EXENQLM system error messages.
0000 57
```



```
0000 58 : V03-038 KPL0012 Peter Lieberwirth 19-Aug-1981
0000 59 : Special case some system error messages from the lock
0000 60 : manager in RMSMAPERR. Also, reorder somewhat the entries
0000 61 : in the table, putting more likely errors in front.
0000 62 :
0000 63 : V03-037 CDS0002 C Saether 18-Jun-1981
0000 64 : Add RMS error codes definitions.
0000 65 :
0000 66 : V03-036 KPL0011 Peter Lieberwirth 8-Jun-1981
0000 67 : Add $ENQ codes to maptable for RMSMAPERR.
0000 68 :
0000 69 : V03-035 CDS0001 C Saether 29-Dec-1980 15:10
0000 70 : Remove code for ACT error (not referenced).
0000 71 :
0000 72 : V034 REFORMAT Ken Henderson 29-JUL-1980 16:18
0000 73 : code was reformatted
0000 74 :
0000 75 : V033 Tim Halvorsen 18-SEP-1979
0000 76 : extracted rm$setdid into rm0setdid module.
0000 77 :
0000 78 : V032 RAN0003 L F Laverdure 10-OCT-1978 13:40
0000 79 : file sharing code modifications
0000 80 :
0000 81 : Revision History:
0000 82 :
0000 83 : L F Laverdure, 10-OCT-1978 13:40 ; file sharing modifications
0000 84 :
0000 85 : L F Laverdure, 11-AUG-1978 17:14 ; add rm$fcpfnc_alt5 entry point
0000 86 :
0000 87 : L F Laverdure, 10-JUL-1978 11:51
0000 88 : mod's for mbf support for seq files
0000 89 : --
0000 90 :
0000 91 :
```



```
0000 93      .SBTTL  DECLARATIONS
0000 94
0000 95      :
0000 96      : Macros:
0000 97      :
0000 98
0000 99      $IODEF
0000 100     $SSDEF
0000 101     $FABDEF
0000 102     $FWADEF
0000 103     $IFBDEF
0000 104     $IRBDEF
0000 105     $FIBDEF
0000 106     $QIODEF
0000 107     $RMSDEF
```

```
0000 109      .SBTTL RMSFCPFNC - ROUTINE TO ISSUE A FILE FUNCTION QIO
0000 110
0000 111      :++
0000 112      : RMSFCPFNC
0000 113      : RMSFCPEXTEND
0000 114      : RMSFCPFNC_P4
0000 115      : RMSFCPFNC_NOFIB
0000 116
0000 117      : this routine completes the qio argument list,
0000 118      : issues the qio, and awaits completion of
0000 119      : the function.
0000 120
0000 121      : Calling sequence:
0000 122
0000 123      :      bsbw      rm$fcpfnc
0000 124      :      bsbw      rm$fcpeextend
0000 125      :      bsbw      rm$fcpfnc_p4
0000 126      :      bsbw      rm$fcpfnc_nofib
0000 127
0000 128      : Input Parameters:
0000 129
0000 130      :      r11      impure area address
0000 131      :      r10      fwa address (input for rm$fcpfnc)
0000 132      :      r9       ifab/irab address
0000 133      :      r8       fab/rab address
0000 134      :      r0       qio function code (not an input for rm$fcpeextend)
0000 135
0000 136      : Implicit Inputs:
0000 137
0000 138      :      ifb$l_chnl      - i/o channel
0000 139      :      fwa$q_fib      - fib descriptor (and buffer)
0000 140      :                      - (note: input for entry at rm$fcpfnc only)
0000 141      :      see also documentation preceding each entry point
0000 142
0000 143      : outputs:
0000 144
0000 145      :      r0      status code
0000 146      :      r1-r4,ap destroyed
0000 147
0000 148      : Implicit Outputs:
0000 149
0000 150      :      ifb$l_ios      - i/o status block filled in
0000 151      :      ( or 1rb$l_ios if r9 = irab )
0000 152      :      fwa$q_fib      - filled in with file function result
0000 153
0000 154      : Completion Codes:
0000 155
0000 156      :      qio status code.
0000 157
0000 158      : Side Effects:
0000 159
0000 160      :      on return rms will be running at ast level.
0000 161
0000 162      :--
0000 163
```



```
0000 165 :  
0000 166 : r0 contains qio function code  
0000 167 : p2-p6 already on stack.  
0000 168 : p1 will point to fib descriptor in fwa  
0000 169 :  
0000 170 :  
0000 171 RMSFCPFNC::  
0000 172 STSTPT FCPFNC  
10 54 8ED0 0006 173 POPL R4 ; R4 = return pc  
AA 7F 0009 174 PUSHAQ FWASQ_FIB(R10) ; p1 = fib descriptor addr  
000C 175 :  
000C 176 :  
000C 177 : r0 contains qio function code  
000C 178 : p1 thru p<N> are on stack  
000C 179 : finish building qio argument list on stack  
000C 180 :  
000C 181 :  
51 51 6E DO 000C 182 FCPCOM: MOVL (SP),R1 ; r1 = fib descriptor address  
04 A1 DO 000F 183 MOVL 4(R1),R1 ; r1 = fib address  
0013 184 FCPCOM_NOFIB:  
0013 185 ASSUME QIOS_ASTPRM EQ <QIOS_P1 - 4>  
59 DD 0013 186 PUSH R9 ; astprm = ifab addr  
0015 187 ASSUME QIOS_ASTADR EQ <QIOS_ASTPRM -4>  
0000'CF DF 0015 188 PUSHAL W^RMSSTALLAST ; ast address  
0C A9 DF 0019 189 ASSUME QIOS_IOSB EQ <QIOS_ASTADR -4>  
001C 190 PUSHAL IFB$C_IOS(R9) ; i/o status block addr  
50 DD 001C 191 ASSUME QIOS_FUNC EQ <QIOS_IOSB -4>  
001E 192 PUSH R0 ; qio function from caller  
50 59 DO 001E 193 ASSUME QIOS_CHAN EQ <QIOS_FUNC - 4>  
0021 194 MOVL R9,R0 ; set ifab/irab addr  
0021 195 ASSUME IFB$B_BID EQ IRB$B_BID  
0021 196 ASSUME IFB$C_BID&1 EQ 1  
0021 197 ASSUME IRB$C_BID&1 EQ 0  
03 08 A9 E8 0021 198 BLBS IFB$B_BID(R9),2$ ; branch if ifab  
50 69 DO 0025 199 MOVL IRB$L_IFAB_LNK(R9),R0 ; get ifab addr  
7E 20 A0 3C 0028 200 2$: MOVZWL IFB$W_CHNL(R0),-(SP) ; i/o channel  
51 D5 002C 201 TSTL R1 ; is there a fib?  
05 13 002E 202 BEQL 5$ ; branch if not  
4F A0 90 0030 203 MOV B IFB$B_AGENT_MODE(R0),- ; move agent mode into fib  
2E A1 0033 204 FIB$B_AGENT_MODE(R1)  
0035 205 ASSUME QIOS_EFN EQ <QIOS_CHAN -4>  
FFC8' 30 0035 206 5$: BSBW RMS$SETEFN ; set event flag to use  
0038 207 ASSUME QIOS_NARGS EQ 12  
00000000'9F 0C FB 0038 208 CALLS #12,5#SYSSQIO ; do the qio  
03 50 E9 003F 209 BLBC R0,10$ ; branch on error  
FFBB' 30 0042 210 BSBW RMS$STALL ; await completion  
64 17 0045 211 10$: JMP (R4) ; return to caller
```



```
0047 213 :  
0047 214 : common entry point to perform acp file extend.  
0047 215 : (sp) : return pc  
0047 216 : (sp)+4: fib descriptor (quadword)  
0047 217 :  
0047 218 :  
0047 219 RMSFCPEXTEND::  
0047 220 $TSTPT FCPEXT ; count file extends  
50 54 8ED0 004D 221 POPL R4 ; r4 = return pc  
36 9A 0050 222 MOVZBL S^#IOS_MODIFY,R0 ; set i/o function code  
7E 7C 0053 223 CLRQ -(SP) ; p6 = p5 = 0  
03 11 0055 224 BRB PUSH_P4 ; br to push rest of qio arguments  
0057 225 :  
0057 226 :  
0057 227 : r0 contains qio function code  
0057 228 : (sp) : return pc  
0057 229 : (sp)+4: p5  
0057 230 : (sp)+8: p6  
0057 231 : (sp)+C: fib descriptor (quadword)  
0057 232 :  
0057 233 :  
0057 234 RMSFCPFNC P4:: ; continue stack at p4  
54 8ED0 0057 235 POPL R4 ; r4 = return pc  
7E 7C 005A 236 PUSH_P4:CLRQ -(SP) ; p4 = p3 = 0  
7E D4 005C 237 CLRL -(SP) ; p2 = 0  
14 AE 9F 005E 238 PUSHAB 20(SP) ; p1 = fib descriptor address  
A9 11 0061 239 BRB FCPCOM ; push rest of qio arguments  
0063 240 :  
0063 241 :  
0063 242 : r0 contains qio function code  
0063 243 : p1 thru p<N> already on stack  
0063 244 :  
0063 245 :  
0063 246 RMSFCPFNC NOFIB::  
54 8ED0 0063 247 POPL R4 ; r4 = return pc  
51 D4 0066 248 CLRL R1 ; clear fib address  
A9 11 0068 249 BRB FCPCOM_NOFIB ; push rest of qio arguments  
006A 250 :
```

```
006A 252
006A 253      .SBTTL  RM$MAPERR - ROUTINE TO MAP SYSTEM ERROR CODES TO RMS CODES
006A 254
006A 255 :++
006A 256 : RM$MAPERR
006A 257 :
006A 258 : This routine maps the error code received in r0 to the equivalent rms error
006A 259 : code.  If the code is not found the default code in r1 is used.  Some system
006A 260 : errors are mapped to themselves since we don't need special RMS errors for
006A 261 : them.
006A 262 :
006A 263 : Calling sequence:
006A 264 :
006A 265 :     brw      rm$maperr
006A 266 :
006A 267 : inputs:
006A 268 :
006A 269 :     r0      system error code
006A 270 :     r1      default rms error code
006A 271 :     r8      fab/rab address
006A 272 :
006A 273 : outputs:
006A 274 :
006A 275 :     fab$l_stv - set from r0
006A 276 :     r0      set from mapped error code or r1 if none
006A 277 :
006A 278 : Side Effects:
006A 279 :
006A 280 :     exits with an rsb.
006A 281 :--
006A 282
006A 283      .MACRO  MAP SYSCOD, RMSCOD
006A 284      .WORD  SS$ 'SYSCOD
006A 285      RMSERR_WORD- RMSCOD
006A 286      .ENDM
006A 287
006A 288 MAPTABLE:
006A 289      MAP      NOSUCHFILE, FNF
006A 290      MAP      NOPRIV, PRV
006E 291      MAP      NOSUCHDEV, DEV
0072 292      MAP      IVDEVNAM, DEV
0076 293      MAP      ENDOFFILE, EOF
007A 294      MAP      DEVALLOC, DNR
007E 295      MAP      DEVNOTMOUNT, DNR
0082 296      MAP      DEVOFFLINE, DNR
0086 297      MAP      DUPFILENAME, FEX
008A 298      MAP      FILNOTEXP, EXP
008E 299      MAP      FCPREADERR, ATR
0092 300      MAP      FCPWRITERR, ATW
0096 301      MAP      ACCONFLICT, FLK
009A 302      MAP      NOMOREFILES, NMF
009E 303      MAP      DEVICEFULL, FUL
00A2 304      MAP      WRITLCK, WLK
00A6 305      MAP      NOTQUEUED, RLK
00AA 306      MAP      EXENQLM, EXENQLM
00AE 307      MAP      DEADLOCK, DEADLOCK
00B2 308      MAP      INSMEM, DME
00B6
```



```
0000 0000 00BA 309      .WORD 0,0      ; end of table
00BE 310
00BE 311
00BE 312 RMSMAPERR::
50  0C A8 50  D0 00BE 313      MOVL    R0,FAB$L_STV(R8)      ; save system code in stv
OFFF0000 8F  D3 00C2 314      BITL    #^XOFFF0000,R0      ; system error code?
OE 12 00C9 315      BNEQ    15$      ; don't map if not
50  9C AF 3E 00CB 316      MOVAW    MAPTABLE,R0      ; address of mapping table
OC A8 80 B1 00CF 317 10$:    CMPW    (R0)+,FAB$L_STV(R8)    ; match with system code?
08 13 00D3 318      BEQL    20$      ; branch if yes
80 B5 00D5 319      TSTW    (R0)+      ; zero entry?
F6 12 00D7 320      BNEQ    10$      ; branch if not
00D9 321
00D9 322      ;
00D9 323      ; reached end of table without finding a match
00D9 324      ; use the default code in r1
00D9 325      ;
00D9 326
50  51 D0 00D9 327 15$:    MOVL    R1,R0
05 05 00DC 328      RSB
00DD 329
00DD 330      ;
00DD 331      ; found matching code in table - use corresponding rms code
00DD 332      ;
00DD 333
50  60 3C 00DD 334 20$:    MOVZWL  (R0),R0
05 05 00E0 335      RSB
00E1 336
00E1 337      .END
```

RMOFILFNC
Symbol table

FILE FUNCTIONS MODULE

K 11

16-SEP-1984 00:21:33 VAX/VMS Macro V04-00
5-SEP-1984 16:21:46 [RMS.SRC]RMOFILFNC.MAR;1

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```

$$PSECT_EP      = 00000000
$$ARGS          = 0000000C
$$RMSTEST       = 0000001A
$$RMS_PBUGCHK   = 00000010
$$RMS_TBUGCHK   = 00000008
$$RMS_UMODE     = 00000004
$$T1            = 00000034
FAB$$_STV       = 0000000C
FCPCOM          = 0000000C R      01
FCPCOM_NOFIB    = 00000013 R      01
FIB$$_AGENT_MODE = 0000002E
FWASQ_FIB       = 00000010
IFB$$_AGENT_MODE = 0000004F
IFB$$_BID       = 00000008
IFB$$_BID       = 0000000B
IFB$$_IOS       = 0000000C
IFB$$_CHNL      = 00000020
IOS_MODIFY      = 00000036
IRB$$_BID       = 00000008
IRB$$_BID       = 0000000A
IRB$$_IFAB_LNK  = 00000000
MAPTABLE        = 0000006A R      01
PIO$$_TRACE     = ***** X      01
PUSH_P4         = 0000005A R      01
QIOS$_ASTADR    = 00000014
QIOS$_ASTPRM    = 00000018
QIOS$_CHAN      = 00000008
QIOS$_EFN       = 00000004
QIOS$_FUNC      = 0000000C
QIOS$_IOSB      = 00000010
QIOS$_NARGS     = 0000000C
QIOS$_P1        = 0000001C
QIOS$_P2        = 00000020
QIOS$_P3        = 00000024
QIOS$_P4        = 00000028
QIOS$_P5        = 0000002C
QIOS$_P6        = 00000030
RMS$$_CPEXTEND  = 00000047 RG     01
RMS$$_CPFNC     = 00000000 RG     01
RMS$$_CPFNC_NOFIB = 00000063 RG     01
RMS$$_CPFNC_P4  = 00000057 RG     01
RMS$$_MAPERR    = 000000BE RG     01
RMS$$_SETEFN    = ***** X      01
RMS$$_STALL     = ***** X      01
RMS$$_STALLAST  = ***** X      01
RMS$$_ATR       = 0001C0CC
RMS$$_ATW       = 0001C0D4
RMS$$_DEADLOCK  = 000187D4
RMS$$_DEV       = 000184C4
RMS$$_DME       = 000184D4
RMS$$_DNR       = 00018272
RMS$$_EOF       = 0001827A
RMS$$_EXENQLM   = 000187DC
RMS$$_EXP       = 000182C2
RMS$$_FEX       = 00018282
RMS$$_FLK       = 0001828A
RMS$$_FNF       = 00018292

```

```

RMS$$_FUL       = 00018544
RMS$$_NMF       = 000182CA
RMS$$_PRV       = 0001829A
RMS$$_RLK       = 000182AA
RMS$$_WLK       = 000182BA
SS$$_ACCONFLICT = 00000800
SS$$_DEADLOCK   = 00000E0A
SS$$_DEVALLOC   = 00000840
SS$$_DEVICEFULL = 00000850
SS$$_DEVNOTMOUNT = 0000007C
SS$$_DEVOFFLINE = 00000084
SS$$_DUPFILENAME = 00000868
SS$$_ENDOFFILE  = 00000870
SS$$_EXENQLM    = 00002A44
SS$$_FCPREADERR = 00000888
SS$$_FCPWRITERR = 000008A0
SS$$_FILNOTEXP  = 000000B4
SS$$_INSMEM     = 00000124
SS$$_IVDEVNAM   = 00000144
SS$$_NOMOREFILES = 00000930
SS$$_NOPRIV     = 00000024
SS$$_NOSUCHDEV  = 00000908
SS$$_NOSUCHFILE = 00000910
SS$$_NOTQUEUED  = 000009B8
SS$$_WRITLCK    = 0000025C
SYS$$_QIO       = ***** X      01
TPT$$_FCPEXT    = ***** X      01
TPT$$_FCPFNC    = ***** X      01

```


+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
RM\$RMS0	000000E1 (225.)	01 (1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$ABS\$	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.11	00:00:00.95
Command processing	115	00:00:00.77	00:00:05.54
Pass 1	458	00:00:17.74	00:00:39.46
Symbol table sort	0	00:00:02.98	00:00:04.97
Pass 2	69	00:00:02.92	00:00:05.22
Symbol table output	11	00:00:00.15	00:00:00.40
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	688	00:00:24.70	00:00:56.56

The working set limit was 1500 pages.

99318 bytes (194 pages) of virtual memory were used to buffer the intermediate code.

There were 110 pages of symbol table space allocated to hold 2065 non-local and 6 local symbols.

337 source lines were read in Pass 1, producing 13 object records in Pass 2.

23 pages of virtual memory were used to define 22 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	8
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	9
TOTALS (all libraries)	17

2170 GETs were required to define 17 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:RMOFILFNC/OBJ=OBJ\$:RMOFILFNC MSRC\$:RMOFILFNC/UPDATE=(ENH\$:RMOFILFNC)+EXECML\$/LIB+LIB\$:RMS/LIB

0318 AH-BT13A-SE
VAX/VMS V4.0

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